

The effect of beam load on the ...

S/089/62/013/005/003/012
B102/B104

These relations are used in studying steady, transient and pulsed operations of the linear accelerator. In the first case ($t_1 > t_g$)

$$w = \frac{1 - e^{-\lambda}}{\lambda} - \gamma \left(1 - \frac{1 - e^{-\lambda}}{\lambda} \right) = \frac{1 - \xi}{\ln[(1+\gamma)/(\xi+\gamma)]} - \chi \quad (11)$$

is obtained for the dimensionless particle energy $w = \frac{W}{W_m}$ after introduction of a dimensionless sector length $\lambda = \alpha l$ with

$\xi(z) = (1 - \lambda)e^{-\alpha z} - 1$ and $\gamma = e(1) = (1 - \lambda)e^{-\lambda} - \chi$; at high currents ($\lambda \gg 1$), $w \approx 1 - \lambda^2/2$. The accelerator efficiency is given by

$$\eta = 2\chi w \lambda = 2\chi \left(1 - \xi - \chi \ln \frac{1+\chi}{\xi+\chi} \right) \quad (12).$$

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For transient operation

$$\varepsilon(t, z) = \begin{cases} -\chi(1-e^{\alpha\hat{z}}) & \text{for } v_g(t-t_a) < z \\ e^{-\alpha z} - \chi(1-e^{\alpha\hat{z}}) & \text{for } v_g(t-t_a) \geq z \end{cases}$$

with $\hat{z} = \min(z, v_g t)$ and if the sector is divided into six regions, then

$$w_1 = \frac{1-e^{-\lambda y}}{\lambda} - \chi x \left\{ 1 - \frac{1-e^{-\lambda x}}{\lambda x} [1-\lambda(1-x)] \right\} \quad w_2 = \frac{1-e^{-\lambda y}}{\lambda} - \chi x \left\{ 1 - \frac{1-e^{-\lambda x}}{\lambda x} [1-\lambda(1-x)] \right\} \quad \text{при } 0 < x < 1, 0 < y < 1; \quad (17a) \quad \text{при } 0 < x < 1, y > 1 \quad (17b)$$

$$w_3 = \frac{1-e^{-\lambda y}}{\lambda} - \chi \left(1 - \frac{1-e^{-\lambda}}{\lambda} \right) \quad w_4 = \frac{1-e^{-\lambda}}{\lambda} - \chi \left(1 - \frac{1-e^{-\lambda}}{\lambda} \right) \quad \text{при } x > 1, 0 < y < 1; \quad (17c) \quad \text{при } x > 1, y > 1; \quad (17d)$$

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$$w_1 = -\chi x \left\{ 1 - \frac{1-e^{-\lambda x}}{\lambda x} [1 - \lambda(1-x)] \right\}$$

при $0 < x < 1, y < 0$; (17a)

$$w_0 = -\chi \left(1 - \frac{1-e^{-\lambda}}{\lambda} \right) \text{ при } x > 1, y < 0. \quad (17b)$$

$$x = \frac{t_1}{t_g}, \quad y = \frac{t_1 - t_0}{t_g}, \quad u = \frac{t_0}{t_g}$$

(16)

which, in the case of considerable load ($\lambda \gg 1$ and $\lambda \ll 1$), reduces to

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$$\left. \begin{array}{l} w_1 = y - \chi \lambda x \left(1 - \frac{x}{2} \right), \\ w_2 = y - \frac{\chi \lambda}{2}, \\ w_3 = 1 - \chi \lambda x \left(1 - \frac{x}{2} \right), \\ w_4 = 1 - \frac{\chi \lambda}{2}, \\ w_5 = -\chi \lambda x \left(1 - \frac{x}{2} \right), \\ w_6 = -\frac{\chi \lambda}{2}. \end{array} \right\}$$

(18)

f

With pulsed operation, i. e. the injection is stopped before the steady state sets in, $w = \frac{1-e^{-\lambda}}{\lambda} - \chi \lambda x$, ($x \ll 1$) with $x = m/\lambda n_\infty$ ($m=0,1,2,\dots$, the number of the pulse), $n_\infty = 1/\alpha \Lambda$ where Λ is the accelerating wavelength, is obtained in first approximation.

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Hence, $w = \frac{1-e^{-\lambda}}{\lambda} - \lambda \frac{m}{n_\infty}$ ($m \ll \lambda n_\infty$) and $x_{\max} = \Delta w / \lambda \lambda$, the energy spread
 $\Delta w = \lambda M / n_\infty$ where M is the number of pulses per wave train. There are 2

SUBMITTED: January 26, 1962

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Card 8/8

L 24320-66 EWT(1)

ACC NNR A16007267

SOURCE CODE: UR/0053/66/088/002/0209/0251

45
BAUTHOR: Bolotovskiy, B. M.; Voskresenskiy, G. V.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR (Fizicheskiy institut AN SSSR)

TITLE: Diffraction radiation 2/SOURCE: Uspekhi fizicheskikh nauk, v. 88, no. 2, 1966, 209-251

TOPIC TAGS: electromagnetic wave diffraction, electromagnetic radiation, transition radiation, Cerenkov radiation, radiation intensity, electromagnetic wave scattering

ABSTRACT: This is a review article devoted to a class of radiation effects connected with scattering of the wave components of the field associated with charges moving past optical inhomogeneities in a medium. The optical inhomogeneities considered are ideally conducting surfaces of various forms (plane screens, waveguides, and periodic structures). The article consists of an introductory part with a brief description of this type of radiation and the features distinguishing it from other effects such as Cerenkov or transition radiation or radiation from a source in nonuniform motion and a presentation of the mathematical techniques necessary to get exact solutions of diffraction-radiation problems, and a major section devoted to various specific cases of diffraction radiation from uniformly charged wires or line currents. It is pointed out in the conclusion that in all cases there are several common characteristic properties: 1. The radiation energy is independent of the mass of the particle, but is determined by its velocity and charge. 2. The character of the diffraction

Card 1/2

UDC: 538.3

L 24320-66

ACC NR: AP6007267

radiation depends on the form of the scattering obstacle. 3. The angular and frequency distributions of the radiation are determined by the velocity of the source and the shape of the scattering obstacle. 4. The intensity of the radiation falls off exponentially at high frequencies. 5. The energy loss in diffraction radiation from line sources is proportional to the first power of the velocity when the velocity is low, and becomes dependent on the form of the line source and the shape of the obstacle at relativistic velocities. The section headings are: 1. Introduction. 2. The electromagnetic field of uniformly moving charges. 3. Mathematical methods for obtaining exact solutions of the problem of diffraction radiation. 4. Two-dimensional problems of diffraction radiation in flight of a source past a semi-infinite conducting screen. 5. Radiation of a line source moving near the open end of a plane waveguide. 6. Radiation from a source moving uniformly in the neighborhood of a diffraction grating formed by a system of equally spaced ideally conducting half planes. Orig. art. has: 10 figures and 187 formulas.

SUB CODE: 20/1 ORIG RIF: 024/ OTH REF: 004

SUBM DATE: none

Card 2/2

VOSKRESENSKIY, I.A.

New data on the structure of the Piastunka overthrust (Sochi
region). Izv.vys.sucheb.zav.; geol. i razv. 6 no.11:151-153
N '63. (MIRA 18:1)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issle-
dovatel'skogo instituta.

L 43679-66 EWT(m) LJP(c)

ACC NR: AT6017505

(N)

SOURCE CODE: UR/2759/65/000/007/0029/0038

AUTHOR: Voskresenskiy, G. V.; Goryshnik, L. L.; Koroza, V. I.

ORG: none

TITLE: Axial motion of particles in the initial section of a strong focusing linear electron accelerator with constant phase velocitySOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli, no. 7, 1965, 29-38

TOPIC TAGS: linear accelerator, phase velocity, RF field, particle motion

ABSTRACT: The calculations of in phase motion of electrons in the initial section with constant phase velocity are limited to two cases. 1) It is assumed that the damping of the RF field is small and the accelerated current remains small. 2) In the second part, it is assumed that the current is large and can become considerably distorted during the accelerating duty cycle. In the first part, it is assumed that the electrons are perfectly bunched in phase and the initial energy is the same for electrons. In this case, the bunches do not spread during the accelerator duty cycle and the "single electron motion" approximation can be applied. A system of equations takes into account the initial spread of momentum of electrons in an interval $\Delta\gamma$ for each group of electrons. The comparison of detailed calculations with the calcula-

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L 43679-66

ACC NR: AT6017505

tions in the "one electron" approximation show that there is an agreement of both methods to 1-2%. Orig. art. has: 6 figures, 6 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 002

mjs
Card 2/2

ACC NR: AP6027234

SOURCE CODE: UR/0109/66/011/008/1419/1427

AUTHOR: Avdeyev, Ye. V.; Voskresenskiy, G. V.

ORG: none

TITLE: Calculation of the diffraction radiation by a linear source moving near a periodic delay structure

SOURCE: Radiotekhnika i elektronika, v. 11, no. 8, 1966, 1419-1427

TOPIC TAGS: electromagnetic radiation, electromagnetic wave diffraction,
delay structure mechanism

ABSTRACT: Earlier Voskresenskiy articles (Dokl. AN SSSR, 1964, v. 156, no. 4, 770; ZhTF, 1964, v. 34, no. 10; 1856) reported an exact solution of the problem of radiation that arises when a charged filament or a linear current moves uniformly in the vicinity of a periodic delay structure which is formed by a

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UDC: 621.372.8 - 59

ACC NR: AP6027234

set of equidistant perfectly-conducting semiplanes. The present article develops these formulas for calculating energy characteristics of radiation that occur under the above-described conditions: total energy loss for radiation, spectral density of the source loss over one spatial period of the delay structure, and approximate total energy loss (valid for two boundary cases: ultra-relativistic source speed and low source speed). Plots of total loss vs. source speed, for two fixed values of b/a , are shown; b - filament target parameter, a - structure period. A numerical example of the spectral distribution of radiation, at the first spatial harmonic, at various source speeds, illustrates the radiation characteristics of a linear source. Orig. art.. has: 8 figures and 16 formulas.

SUB CODE: 20, 09 / SUBM DATE: 03May65 / ORIG REF: 002

Card 2/2

VOSKRESENSKY, I. A., Cand Geolog-Mineralog Sci (diss) -- "The geological structure and development of the Vandam anticlinorium (southeastern Caucasus)".
Moscow-Krasnodar, 1960. 18 pp (Moscow Order of Lenin and Order of Labor
Red Banner State U im M. V. Lomonosov, Krasnodar Affiliate of the All-Union
Petroleum and Gas Sci Res Inst), 110 copies (KL, No 14, 1960, 128)

VOSKRESENSKIY, I.A.

Tectonics and basic stages of the development of the Vandam
anticlinorium (southeastern Caucasus). Izv. vys. ucheb. zav.;
geol. i razv. 2 no.12:55-68 '59. (MIRA 14:6)

1. Krasnodarskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta nefti.
(Vandam region--Geology, Structural)

VOSKRESENSKIY, I.A.; ROSTOVTSEV, K.O.; D'YAKONOV, A.I.

Geology of the Barakayevskoye field based on new data.
Trudy KF VNII no.10:89-97 '62. (MIRA 15:11)
(Krasnodar Territory--Petroleum geology)
(Krasnodar Territory--Gas, Natural--Geology)

D'YAKOV, A.I.; ROSTOVSEV, K.O.; VOSKRESENSKIY, I.A.

New data on the geology of the Khadyzhensk and Shirvan-
Bezvodnenskiy regions. Trudy KF VNII no.10:67-81 '62.

(MIRA 15:11)

(Caucasus—Geology)

VOSKRESENSKIY, I.A.

Lower Paleocene sediments of the Danian stage in the Vandam
anticlinorium (southeastern Caucasus). Izv. vys. ucheb. zav.;
geol. i razv. 4 no.4:24-26 Ap '61. (MIRA 14:6)

1. Azerbaydzhanskiy industrial'nyy institut imeni Azizbekova.
(Azerbaijan--Geology, Stratigraphic)

ROSTOVTSEV, K.O.; VOSKRESENSKIY, I.A.; D'YAKONOV, A.I.

New data on the geology and gas and oil deposits of the eastern regions of the Kuban. Trudy KF VNII no.6:38-66 '61. (MIRA 15:2) (Kuban--Petroleum geology) (Kuban--Gas, Natural--Geology)

VOSKESENSKIY, I.A.; KHAIN, V.Ye.; SHURGIN, A.M.

Overthrust sheets in the southeastern Caucasus and the conditions
governing their formation. Vest. Mosk. un. Ser. 4: Geol. 18
no.4:15-33 Jl-Ag '63. (MIRA 16:10)

1. Kafedra dinamicheskoy geologii Moskovskogo universiteta.

VOSKRESENSKIY, I.A.

Relationship between the geologic formations of the southern slope
of the Greater Caucasus. Trudy KF VNII no.6:369-385 '61.
(MIRA 15:2)
(Caucasus--Geology)

SHARDANOV, A.N.; VOSKRESENSKIY, I.A.; NIKIFOROV, B.M.

Lithofacies and sedimentation in the Mesocenozoic of the
Yeisk-Berezan' area of the Scythian platform. Trudy KP VIII
no.3:120-142 '60. (MIRA 13:11)
(Krasnodar Territory--Geology)

VOSKRESIENSKIY, I.A.

~~Basal cover in the southeastern Caucasus [with summary in English].
Sov.geol. 1 no.7:62-84 Jl '58.~~
(MIRA 11:11)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta.
(Caucasus—Geology, Structural)

VOSKRESENSKIY, I.A.

Origin of the Talystan cliff. Dokl. AN Azerb.SSR 13 no.5:529-534
'57. (MIREA 10:7)

1. Azerbaydzhanskiy Ordena Trudovogo Krasnogo Znameni industrial'nyy
institut im. Azizbekova.
(Ismailly Valley--Geology, Structural)

VOSKRESENSKIY, IVAN NIKANOROVICH.

Korroziia i erozija sudovykh grebnykh vintov: pol obshchei red. V. P. Popova. Leningrad Gos. izd-vo sudostroit. lit-ry, 1949. 145 p. illus., port.

Bibliography: p. 147.

Corrosion and erosion of ship propeller screws.

DLC: VM755.V9

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

I-11

, I.I.
USSR/Chemical Technology - Chemical Products and Their
Application. Water Treatment. Sewage Water.

Abs Jour

Author

Title

Orig Pub

Abstract

: Referat Zhur - Khiniya, No 4, 1957, 12736

: Voskresenskiy I.I.
Hydraulic Resistance

: Vodosnabzheniye i san. tekhnika, 1955, No 9, 3-5

: An experimental determination was made of the hydraulic resistance of a cathiodite filter, with a 100 m diameter model, during direct and countercurrent filtration. Depth of the cathionite layer and countercurrent filtration was varied within 0.25-2.61 m, the rate of filtration from 3.44 to 37.4 m/hour. During countercurrent operation, the filter charge was somewhat expanded. With all other conditions being equal, filter resistance to countercurrent flow is less than to direct flow; with a filtration rate of 3.44 m/hour -- by 9 times; at 23.25 m/hour -- by 3.6 times; at 37.4 m/hour -- by 3.4 times.

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FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861030001-1"

Technology - Chemical Products and Their Application - water treatment. Sewage water.

1-11

Referat 31.10.1957, 12736
stronger effect on current flow.

Referat 21.12.1957, 12/30

stronger effect. Recurrent flow.

stronger effect - more intense flow

Card 2/2

四

VOSKRESENSKIY, I., kandidat tekhnicheskikh nauk.

Waterproofing of underground structures. Stroitel' 2 no.9:18 8'56.
(Waterproofing) (MIRA 10:1)

ZASOV, Ivan Alekseyevich, kand.tekhn.nauk; PIKOVSKIY, Yakov Moiseyevich,
dotsent, kand.tekhn.nauk; VOSKRESENSKIY, I.M., red.; AVHUSHOMENKO,
R.P., red.izd-vs; VOLKOV, S.V., tekhn.red.

[Asphalt concrete plants] Asfal'tobetonnye zavody. Pod obshchey
red. IA. Pikovskogo. Moskva, Izd-vo M-va kommun.khoz. RSFSR,
1958. 499 p. (MIRA 12:3)
(Asphalt concrete) (Concrete plants--Equipment and supplies)

VOSKRESENSKII, I. N.

Author: Voskresenskiy, I. N.

Title: The corrosion and erosion of naval propeller surfaces. (Korroziya i eroziya sudovykh protivnykh vintov.) 145

City: Leningrad

Publisher: State Printing House of Literature pertaining to Ship Construction

Date: 1949

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 3, No. 4, P. 246

Call No: VN755.V9

Subject: 1. Propellers. 2. Corrosion and anti-corrosives.

VOSKRESENSKIY, K.

Sbornik Zadach po Teploperedache (Collection of Problems on Heat Transfer)

166 p. 1.00

SO: Four Continent Book List, April 1954

BOGOSLOVSKIY, Boris Borisovich. Prinimeli uchastiye: VOSKRESENSKIY, K.A.,
dotsent; TSYTSARIN, G.V., kand.geograf.nauk. PETROVA, K.A., red.;
GEORGIYEVA, G.I., tekhn.red.

[Limnology] Ozerovedenie. Moskva, Izd-vo Mosk.univ., 1960.
(MIRA 14:4)
334 p. (Limnology)

VOSKRESENSKIY, K.A.; LEHEDEVA, L.I.

Study of the populations of Cladocera by the method of semi-isolation in a body of water. Zool. zhur. 43 no.4:518-524 '64

1. State University of Moscow.

VOSKRESENSKIY, K.A.; YURINA, Ye.V.

Anteromnas gracilis Artari as an object of mass cultivation.
Vest. Mosk. un. Ser. 6: Biol., No. 2: 29-35 Mr-Ap '65.

1. Kompleksnaya laboratoriya po izucheniyu sredstv i sposobov
bor'by s vrednymi zhivotnymi i boleznyymi rasteniy Moskovskogo
universiteta. (MIRA 18:5)

"APPROVED FOR RELEASE: 03/14/2001

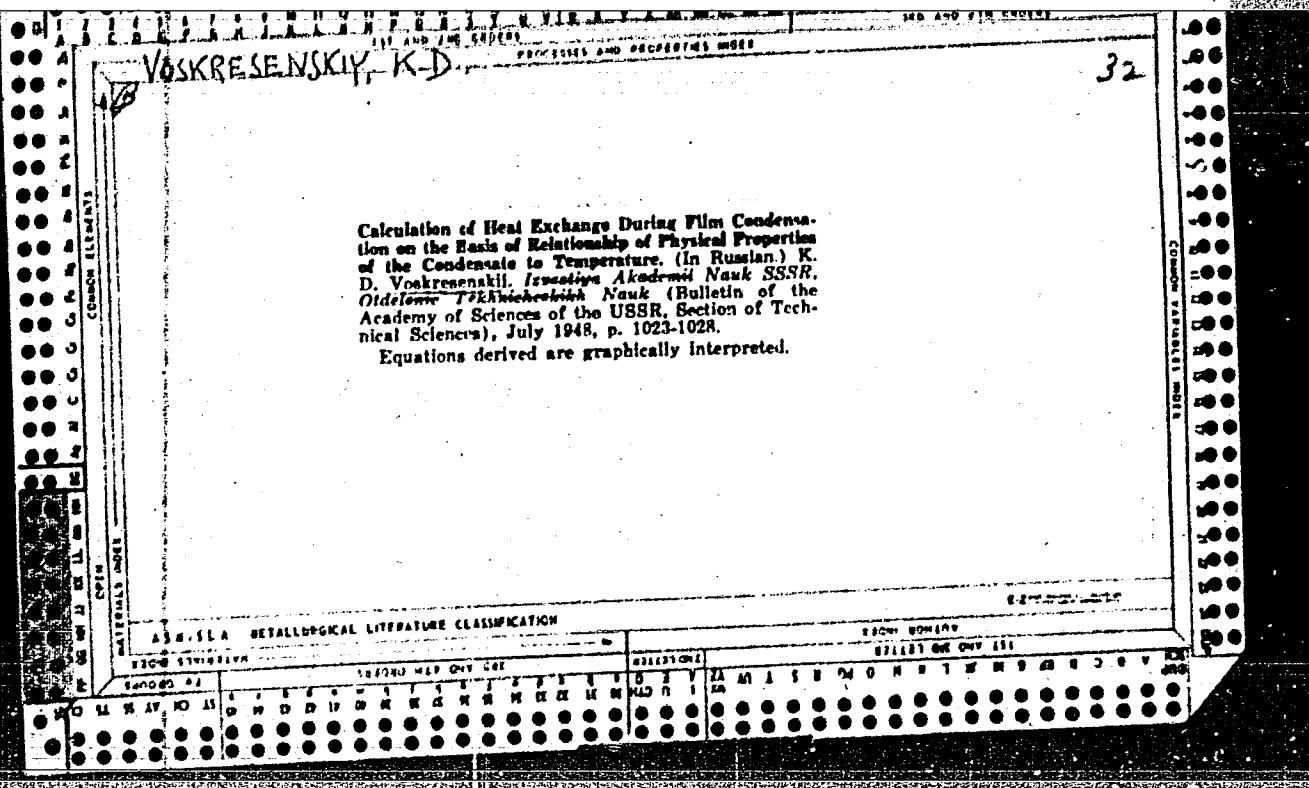
CIA-RDP86-00513R001861030001-1

..... venu. Biol. Sci.

Dissertation: "The Biohydrological Filtering System of the Shallow Part of
the Sea." Moscow Order of Lenin State U imeni M. V. Lomonosov, 9 Apr 47.
SO: Vechernaya Moskva, Apr, 1947 (Project #17836)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861030001-1"



VOSKRESENSKIY, K. D.

"Collection of Problems on Heat Transfer" 1951

Problems based on the most important chapters of the course on Fundamentals of Heat Transfer by Mikheyev, M. A.

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VOSKRESENSKIY, K. D.

1 Jan 53

USCR/Physics - Thermal Mode

"Computations of Thermal Regime of Mines," K. D. Voskresenskiy

DAN SSSR, Vol 86, No 1, pp 61, 62

Problem was previously solved by O. A. Kremnev (see DAN SSSR, 85, 5, 1009 (1952)).

Author simplifies soln and obtains it in a finite form. Received 30 Oct 52.

262T78

VOSKRESENSKIY, K. D., FEDYNSKIY, O. S., MIKHALEV, N. A., BACH, V. A.

"Heat Delivery of Molten Metals," a paper presented at the Atoms for Peace Conference, Geneva, Switzerland, 1955

VOSKRESENSKIY, K.D., doktor tekhn.nauk; TURILINA, Ye.S., kand.tekhn.
nauk

Use of variational methods in calculating heat transmission
processes. Teploenergetika 11 no. 1:82-85 Ja '64. (MIRA 17:5)

1. Energeticheskiy institut im. G.M.Krzhizhanovskogo.

SHLYKOV, Yuriy Pavlovich; GANIN, Yevgeniy Alekseyevich. Prinimala
uchastiye MIKHAYLOVA, G.M., kand. tekhn. nauk;
VOSKRESENSKIY, K.D., red.; FRIDKIN, L.M., tekhn. red.

[Heat exchange by contact; heat transfer between contiguous
metal surfaces] Kontaktnyi teploobmen; teploperedacha
mezhdu sopriksasaiushchimsia metallicheskimi poverkhnostiami.
Moskva, Gosenergoizdat, 1963. 143 p. (MIRA 16:5)
(Heat--Transmission)

S/855/62/000/000/001/005
E031/E435

AUTHORS: Turilina, Ye.S., Voskresenskiy, K.D.

TITLE: Two methods of calculating the temperature on the wall of a tube heated by an electric current in the case of high heat loads

SOURCE: Teploperedacha. Energ. inst. AN SSSR. Ed. by M.A.Mikheyev. Moscow, Izd-vo AN SSSR, 1962. 3-14

TEXT: The temperature is determined in a cooled wall of variable thermal and electric conductivity in which an electrical current flows. The following assumptions are made: (1) the temperature field depends only on the radius, (2) a given temperature is maintained on the outer surface of the wall, (3) all the heat passes through the inner surface (whose temperature is to be determined), (4) the thermal conductivity and the specific resistance of the wall are linear functions of the temperature. Under these conditions the problem is reduced to the determination of a relation between the temperature, the radius and two parameters. The first method of solving this problem is the method of small perturbations; the third approximation is determined. An example

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Two methods of calculating ...

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illustrates the rapid convergence of the series obtained. The second method is the method of successive approximations; the second approximation is obtained, the third being stated to virtually coincide with it. The example considered for the first method provides a comparison between the accuracies of the two methods, the first being considered more convenient for this case. B.L.Farland (J. of Applied Physics, v.29, no.12, 1958) obtained a temperature over 100°C lower after making a number of simplifications. If the temperature on the outer wall exceeds 1000°C it is preferable to use the second method, based on the calculation of the total electrical resistance of the wall. Modifications to the method are described. There are 2 figures.

Card 2/2

: VOSKRESENSKIY, K.D.

PHASE I BOOK EXPLOITATION

SOV/5829

Novikov, Ivan Ivanovich, Corresponding Member, Academy of Sciences USSR, Professor,
and Kirill Dmitriyevich Voskresenskiy

Prikladnaya termodinamika i teploperedacha (Applied Thermodynamics and Heat Transfer) Moscow, Gosatomizdat, 1961. 547 p. (Series: Osnovy yadernoy energetiki)
Errata slip inserted. 7500 copies printed.

Ed.: A. V. Matveyeva; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This textbook is intended for students specializing in nuclear engineering. The book is part of a series entitled "Fundamentals of Nuclear Engineering" published by Gosatomizdat and based on lecture courses of the authors.

COVERAGE: The book consists of two major parts, each virtually a separate book, entitled "Thermodynamics" and "Heat Transfer", respectively. Part I, by I.I. Novikov, covers the usual subject matter found in a course in engineering thermodynamics, namely, basic concepts, the first and second laws of thermodynamics, thermodynamic processes and cycles, compressors and internal combustion engines,

Card 1/27

SHKLOVER, Aron Mikhaylovich; VOSKRESENSKIY, K.D., red.; LARIONOV, G.Ye.,
tekhn. red.

[Heat transfer in connection with intermittent heat] Teploperedacha
pri periodicheskikh teplovykh vozdeistviakh. Izd.2., perer. i dop.
Moskva, Gos. energ. izd-vo, 1961. 159 p. (MIRA 14:9)
(Heat—Transmission)

NOVIKOV, Ivan Ivanovich, prof.; VOSKRESENSKIY, Kirill Dmitriyevich; MATVEIEVA, A.V., red.; MAZEL', Ye.I., tekhn. red.

[Applied thermodynamics and heat transfer] Prikladnaia termodinamika i teploperedacha. Pod red. I.I.Novikova. Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 546 p.
(MIRA 14:8)

1. Chlen-korrespondent AN SSSR (for Novikov)
(Heat—Transmission) (Thermodynamics)

VOSMINSKOVYI DOK

PHASE I BOOK EXPLOITATION

SOV/4396

Akademiya nauk SSSR. Energeticheskiy institut

Konvektivnyy i luchistyy teploobmen (Convection and Radiation Heat Exchange)
Moscow, Izd-vo AN SSSR, 1960. 254 p. Errata slip inserted. 3,200 copies
printed.

Ed.: M.A. Mikheyev, Academician; Ed. of Publishing House: G.B. Gorshkov; Tech.
Ed.: V.V. Bruzgul'.

PURPOSE: The book is intended for scientists and engineers working in various
branches of science and industry concerned with thermodynamics and heat trans-
fer problems.

COVERAGE: The book consists of 19 original articles on various problems in thermo-
dynamics. The following subjects are discussed: mechanism of heat transfer
processes, intensification of heat exchange, determination of thermophysical
properties of operating media, heat transfer in supersonic flow of gas, and
combustion chambers and nuclear reactors. Theory and experimental techniques
are described. Each article describes the conditions of the experiment and
tables of the experimental data obtained are given. The data may be used for
calculations of heat transfer and heat exchangers, always taking account of
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Convection and Radiation Heat Exchange

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the special experimental conditions under which the data were established.
No personalities are mentioned. References follow most of the articles.

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Editor's Foreword

and

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Sources of Heat Acting in a Flow of a Liquid in a Pipe

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Motulevich, V.P. Heat Exchange in the Frontal Point of Blunt Bodies in a
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Convection and Radiation Heat Exchange	SOV/4396
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Convection and Radiation Heat Exchange

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AVAILABLE: Library of Congress

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10/20/60

~~VOSKRESSENSKIY A.I.~~

24(8) PHASE I BOOK EXPLOITATION

507/1826

Akademija nauk SSSR. Energeticheskiy Institut
Sovjaponskaja kapitolya modelirovaniye (Heat Transfer and
Boiling). Red.-ro Akad. SSSR. 1959.
Nauchnoe izdatelstvo "Tekhnika".
119 p. Errata slip inserted. 3,500 copies printed.

Resp.: M. A. Kirichev. Academician: Ed. of Publishing
House: D. A. Ivanov. Tech. Ed.: G. N. Shechenko.

PURPOSE: The book is intended for scientists concerned with heat transfer, heat emission, and hydraulics of liquid metals, etc.

COVERAGE: This collection is dedicated to the memory of Academician

M. V. Kiričhev who in the twenties initiated a systematic investigation of heat transfer processes and the efficiency of heat apparatus. Later he led the development of research work in this field. Two special collections devoted to works of Kiričhev's school have been published, one in 1938, Materialy soveshchanija po modelirovaniyu (Materials of the Conference on Modelling) and in 1953, Teoriya podobija i modelirovaniye (Theory of Similarity and Modelling). The present collection prepared in 1956 represents further development of the work of this school. This theory is fundamental for the analysis of many heat problems in the field of electrical and radio engineering. Of great importance are the first systematic investigations of heat transfer and the hydraulic of liquid metals which as a new kind of heat carrier may be used in the various branches of modern engineering as a result of special investigations of some cases of convective heat transfer, a dependence of the process on the kind of liquid, temperature, pressure, direction of the heat flow, and other factors, was discovered and established. On the basis of a wide generalization of experimental data, new dependent recommendations for heat transfer in the vapor and heat transpiration in boiling liquids were stated. All investigations are based on the theory of similarity, the nature of which according to M. V. Kiričhev, is that of experiment. Work on the theory of Kiričhev's regular regime applied to a class of bodies with an internal source of heat is of interest for the future.

Card 2/20

1958 Sovjatskij Gos. Univ. and Ye. S. Turullin. Approximate Analysis of Heat Transfer in Liquid Metals 87

The article explains reasons for differences of heat transfer values in clean pipes as calculated by an empirical formula developed by R. W. Lyon (Liquid Method Heat Transfer Coefficients, Chem. Eng. Progr., Vol. 47, No. 2, 1951). It is suggested that other variants of the evaluation of heat transfer are possible with the aid of Franklin's fields. There are 11 references.

2 Soviet, 2 English, 2 German, and 2 translations into Russian.

Kondrat'ev, M. S. Hydraulic Resistance in the Flow of Liquid

Metals in Pipes 93

Experimental investigations of hydraulic resistance in the flow of various liquids in pipes were made in ZINM (Institute of Power Engineering). The following conclusions are given: 1) Hydraulic resistance of liquid metals is smaller than that of water. 2) Inside roughness of pipe walls has the same effect on the hydraulic resistance of liquid metals as on other liquids. 3) Hydraulic resistance in the flow of liquids in pipes is practically independent of the wall-finishing phenomenon. It may therefore be determined according to formulas for ordinary liquids. It is stated that N. A. Syrnikovich, A. I. Sosulin, and I. Ye. Sosenkov investigated hydraulic resistance in a turbulent flow of water in rough steel pipes. L. I. Gerasimov, A. A. Kamayev, A. I. Dobzhik, and N. I. Kornev investigated the hydraulic resistance of mercury and mercury amalgams (containing tin, lead, and alloyed steel pipes). Experiments were made at Tarki (Central Scientific Research Institute for Boilers and Turbines). There are 12 references: 6 Soviet, 1 Dutch, and 5 translations into Russian.

VOSKRESENSKIY, K. D.

124-11-12810

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr. 11, p. 72 (USSR)

AUTHOR: Mikheyev, M. A., Baum, V. A., Voskresenskiy, K. D., Fedynskiy, O. S.

TITLE: Heat Transfer by Molten Metals. (Teplootdacha rasplavlennykh metallov)

PERIODICAL: V sb.: Reaktorostroyeniye i teoriya reaktorov. Moscow, Izd-vo AN SSSR; 1955, pp 139-151 (Also, in English, Progr. Nuclear Energy, 1956, Ser. 4, No. I, pp 223-232)

ABSTRACT: Contains fundamental information of experimental installations, measuring techniques, and testing methods.

Investigated was the heat transfer by mercury, tin, lead, bismuth, sodium, and bismuth-lead and sodium-potassium alloys.

The flow velocities varied from 0.1 to 20 m/sec, the Reynolds number from 1×10^4 to 6.5×10^5 , the Prandtl number from 4×10^{-3} to 3.2×10^{-2} , and the specific heat flux from 2×10^4 to 1×10^6 kg-cal/m².hr.

The Authors offer criteria for pure and oxidized surfaces based on 600 test points.

A comparison is made between the test data and existing theories.

Card 1/2

124-11-12810

Heat transfer by molten metals (continued).

From an evaluation of a variety of test data a new criterion is proposed in the form of a formula which applies to molten metals as well as to "common" liquids in which the Prandtl number exceeds 0.7.

Investigations were also performed on the heat transfer in conditions of natural convection on heated plates and tubes for heavy and alkaline molten metals and their alloys.

As a result of the evaluation of the test material, and also from available data on liquids exhibiting low heat conductivity, the Authors submit a single criterion formula for the heat transfer in large volumes, applicable over a wide range of Grashof and Prandtl numbers.

The data relative to the hydrodynamic resistance in the flow of liquid metals show that the general formulas of hydrodynamics are applicable.

(V. N. Krylov)

Card 2/2

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CIA-RDP86-00513R001861030001-1

VOSKRESENSKIY, K. D.

CHESCHINSKIY, Aleksandr Vasil'yevich; VOSKRESENSKIY, K.D., red.; LARIONOV,
G.Ye., tekhn.red.

[High temperature heat transfer media] Vysokotemperaturnye teglo-nositeli. Moskva, Gos.energ. izd-vo, 1957. 167 p. (MIRA 11:2)
(Heat--Transmission)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861030001-1"

24(8)

PHASE I BOOK EXPLOITATION

SOV/3300

Voskresenskiy, Kirill Dmitriyevich

Sbornik raschetov i zadach po teploperedache (Collection of Calculations and Problems on Heat Transfer) 2d ed., rev. Moscow, Gosenergoizdat, 1959. 335 p. 15,000 copies printed.

Ed.: S. N. Shorin; Tech. Ed.: G. Ye. Larionov.

PURPOSE: The book has been approved by the Ministry of Higher Education, USSR, as a manual for students specializing in heat engineering at higher technical schools.

COVERAGE: This is a collection of problems and calculations on heat transfer, supplementing M. A. Mikheyev's theoretical manual, "Principles of Heat Transfer". The second part of the book deals with the theory of similitude and heat transfer by means of conduction and convection. The author thanks the following persons for their help: S. N. Shorin, B. S. Petukhov, V. A. Osipova, E. A. Krasnoshchekov, and E. S. Turilina. There are 45 bibliographic references: 40 Soviet, 3 English and 2 German.

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Collection of Calculations (Cont.)

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Collection of Calculations (Cont.)

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Ch. 23. Heat Transfer in Tubes

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AVAILABLE: Library of Congress

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3/16/60

VEKREGENSKY, K.G.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Vekrenensky, K.G.	"River Runoff and Temporary Water Streams on the Forest Steppe and Steppe Zones of the European USSR"	State Hydrological Institute

SO: W-30604, 7 July 1954

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861030001-1

"Principles Governing the Calculation of Hydrographs of Mountain Streams," No 1, pp 28-36.
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861030001-1"

VOSKRESENSKIY, K. P.

Technology

Runeff of rivers and temporary runoff to the territories of the forest steppe and steppe regions of the European part of the U.S.S.R.
Leningrad, Gidroteeizdat, 1951

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KUZIN, P.S.; VOSKRESENSKIY, K.P.

[Hydrology of the rivers in the southern regions of Western Siberia and in Northern and Central Kazakhstan] Rezhim rek iushnykh raionov Zapadnoi Sibiri, Severnogo i Tsentral'nogo Kazakhstana. Pod red. K.P.Voskresenskogo. Leningrad, Gidrometeoizdat, 1953. 538 p.
(MLRA 8:1)

(Siberia, Western--Rivers) (Kazakhstan--Rivers)

VOSKRESENSKIY, K. P.

PA 245T57

USSR/Geophysics - Hydrology

Nov 52

"Some Works Data on the Volga-Don Canal imeni Lenin
and the Tsimlyansk Reservoir," K. P. Voskresenskiy,
Cand Geog Sci, and Ye. M. Selyuk, Cand of Tech Sci,
Leningrad State Inst of Hydrology

"Meteorol i Gidrol" No 11, pp 22-26

Presents an account of projects and contributions
by individuals, groups, institutions, etc., which
have aided in the "great" constructions of Communism.

245T57

VOSKRESENSKIY K.P., kandidat geograficheskikh nauk; PROTAS'IEV, M.S.,
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Investigation of surface runoff in reclaimed virgin land regions
of Kazakhstan. Vest.AN Kazakh.SSR 11 no.8:47-49 Ag'55.
(Kazakhstan--Runoff) (MIRA 9:1)

ALEKHIN, Yuriy Mikhaylovich; VOSKRESENSKIY, K.P., otvetstvennyy redaktor;
SHASHILINA, M.K., redaktor; SULOVAYCHIK, A.A., tekhnicheskij redaktor

[Short-range forecasts of stream-flow of lowland rivers] Kratko-
srochnye prognozy stoka na ravninnykh rekakh. Leningrad, Gidro-
meteorologicheskoe izd-vo, 1956. 265 p.
(Rivers) (MIRA 10:1)

VOSKRESENSKIY, Konstantin Petrovich; ANDREYANOV, V.G., redaktor; SHATILINA, N.Y., redaktor; SOLOVEYCHIK, A.A., tekhnicheskij redaktor.

[Hydrological calculations in designing installations on small rivers, creeks and seasonal streams; principal methods and practices] Gidrologicheskie raschety pri proektirovanií sooruzhenii na malykh rekakh, ruch'iah i vremennyykh vodotokakh; metodicheskie osnovy i praktika.. Leningrad, Gidrometeorologicheskoe izd-vo, 1956. 467 p. (MIRA 9:6)
(Hydraulic engineering)

VosKresenskiy, K.P.

ANDREYANOV, Vladimir Georgiyevich, kandidat tekhnicheskikh nauk; SOKOLOVSKIY, D.L., doktor tekhnicheskikh nauk, redaktor; VOSKRESSENSKIY, K.P., kandidat geographicheskikh nauk, redaktor; OSENOVA, Ye.I., redaktor; SHUMIKHIN, K.F., tekhnicheskiy redaktor.

[Hydrological calculations for the planning of small and medium size hydroelectric power stations] Gidrologicheskie raschety pri proektirovani i malykh i srednikh gidroelektrostantsii. Pod.red.D.L. Sokolovskogo i K.P.Voskresenskogo, Leningrad, Gidrometeorologicheskoe izd-vo, 1957. 523 p., 2 fold.maps (in pocket)

(Hydroelectric power stations)

(MIRA 10:5)

ANDREYANOV, V.G.; VOSKRESENSKIY, K.P.; GLUSHCHENKO, N.Ya.; PANOV, N.P.

Study of the frequency and duration of periods of different
water content of rivers of the U.S.S.R. Trudy GGI no.127;
227-276 '65.

(MIRA 18:9)

VOSKRESENSKIY, Konstantin Petrovich; ANDREYANOV, V.G., doktor tekhn.
nauk, otv. red.; DERYUGINA, V.N., red.; NEDOUSHIVINA, T.G.,
red.; ALEKSEYEV, A.G., tekhn. red.; VOLKOV, N.V., tekhn.
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[Norm and variations of the annual runoff of Soviet Union
rivers]Norma i izmenchivost' godovogo stoka rek Sovetskogo
Soiuza. Leningrad, Gidrometeocizdat, 1962. 543 p.

[Maps of the annual average runoff of U.S.S.R. rivers on
a 1:5,000,000 scale (eight sheets) and on a 1:10,000,000
scale (one sheet)]Karty srednego godovogo stoka rek SSSR v
masstabakh 1:5,000,000 (na 8 listakh) i 1:10,000,000 (na 1
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(MIRA 15:11)

(Runoff)

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2. USSR (600)
4. Geology and Geography
7. Flow of Rivers and Seasonal Currents in Forest-Steppe and Steppe Zone
Territory of the European Part of USSR. K. P. Voskresenskiy.
(Leningrad, Hydromet Press, 1951). Reviewed by V. Ye. Ioganson.
Sov. Kniga, No. 6, 1952.
9. [REDACTED] Report U-3081, 16 Jan. 1953, Unclassified.

URIVAYEV, V.A., kand.tekhn.nauk; red.; CHEBOTAREV, A.I., kand.tekhn. nauk, red.; VOSKRESENSKIY, K.P., kand.geogr.nauk, red.; DOMANITSKIY, A.P., kand.geogr.nauk, red.; PROTAS'IEV, M.S., kand.geogr.nauk, red.; SOKOLOVSKIY, D.L., doktor tekhn.nauk, red.; SHATILINA, M.K., red.; VLADIMIROV, O.G., tekhn.red.

[Surface water resources in regions of reclaimed virgin and idle lands] Resursy poverkhnostnykh vod raionov osvoeniiia tselinnyykh i zaleshnykh zemel'. Pod obshchei red. V.A.Uryvayeva. Leningrad, Gidrometeor.izd-vo. No.5. [North Kazakhstan Province, Kazakh S.S.R.] Ssvero-Kazakhstanskaisa oblast' Kazakhskoi SSR. 1960. 418 p. (MIRA 13:11)

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2. Direktor Gosudarstvennogo hidrologicheskogo instituta (for Uryvayev).

(North Kazakhstan Province--Water supply)

URYVAYEV, V.A., kand.tekhn.nauk, obshchiy red.; VOSKRESENSKIY, K.P.,
kand.geograf.nauk; red.; KUZIN, P.S., kand.geograf.nauk, red.;
PROTAS'YEV, M.S., kand.geograf.nauk, red.; CHZBOTAREV, A.I.,
kand.tekhn.nauk, red.; SHATILINA, M.K., red.; VLADIMIROV, O.G.,
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[Surface water resources in regions of reclaimed virgin and waste
lands] Resursy poverkhnostnykh vod raionov osvoeniiia tselinnykh
i zalezhnykh zemel'. Leningrad, Gidrometeor.izd-vo, No.3.
[Kokchetav Province, Kazakh S.S.R.] Kokchetavskaya oblast' Kazakhskoi
SSR. Pod obshchey red. V.A.Uryvayeva. 1959. 563 p. (MIRA 12:10)

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(Kokchetav Province--Hydrology)

URIWAYEV, V.A., kand.tekhn.nauk, obshchiy red.; VOSKRESENSKIY, K.P.,
kand.geogr.nauk, red.; PROTAS'IEV, M.S., kand.geogr.nauk, red.;
CHEBOTAREV, A.I., kand.tekhn.nauk, red.; MURANOV, A.P., kand.
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[Surface-water resources in districts of reclaimed virgin and waste
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(Kustanay Province--Hydrology)

VOSKRESENSKIY, K.P.

Analyzing the silting of ponds in the lowland regions of northern Kazakhstan. Trudy Lab. ozeroved. 7:75-81 '58. (MIRA 11:10)

1.Gosudarstvennyy gidrologicheskiy institut Glavnogo upravleniya
Gidrometeorologicheskoy sluzhby SSSR.
(Kazakhstan--Farm ponds)

VOSKRESSENSKIY, L.; YEVZHOV, A., tekhnruk.; SHLIONSKAYA, Ye., KAUFMAN, S.,
Tishomer-khimik; FIDLER, I., mekhanik; VINOGRADOV, V., khimichnik.

Photographic printing on blankets. Prom.ksop.no.2:19-21 P '56.

(MIRA 9:7)

1. Prodsgadatel' pravleniya arteli "Promtkach" (for Voskresenskiy)
(Textile printing)(Photomechanical process)

VOSKRESENSKIY, M.P., zasluzhennyj vrach RSFSR (Kalinin, ul. Engel'sa, d.13);
SHAPIRO, V.A.

Surgical treatment of varicocele. Klin. khir. no.1:44-46 - 65.
(MIRA 18:8)

1. Kafedra fakul'tetskoy khirurgii (ispolnyayushchiy obyazannosti
zaveduyushchego - dotsent N.V.Zavedovskaya) Kalininskogo medi-
tsinskogo instituta na baze Kalininskoy oblastnoy bol'nitsy No.1.

VOSKRESENSKIY, M.P. (Kalinin)

On A.A. Birkun's article "Fatal gas embolism" (Urologiia no.6 '57).
Urologiia 23 no.4:67-68 Jl-Ag '58
(MIRA 11:8)
(EMBOLISM)

EXCERPTA MEDICA Sec 9 Vol 13/4 Surgery Apr 59

(S)

2064. SURGICAL TREATMENT OF HYDRONEPHROSIS (Russian text) -
Voskresenskiy M. P. - UROL. 1957, 3 (9-17)
Of 142 patients with hydronephrosis; 69 were operated upon. Thirty-nine corrective operations were performed, 19 of them after Foley's method. Division of an accessory blood vessel was performed on 10 occasions as an independent operation.

2064

and on 8 occasions as a part of Foley's operation. No untoward results were observed following this division. The author draws attention to the indications for Foley's operation, describes its technique, and analyses his observations on the operated patients, of whom 12 were males and 7 females. The right kidney was affected in 9, and the left in 10 patients. The operations were performed under ether and ether-oxygen narcosis. The post-operative period was smooth in 8 patients. In 5 patients a suppuration of the wound, in 2 pulmonary complications, in 2 haematuria, and in 1 a peritoneal irritation were noted. The average duration of postoperative bed rest was 25.4 days. The operative results were evaluated on the basis of disappearance of subjective complaints, normalization of urine, improved function tests of the urinary tract, and a decrease of organic changes in the kidneys and renal pelvis. Work was resumed after 1.5-2 months in uncomplicated cases. Late results were good in 12, satisfactory in 3, and unsatisfactory in 3 operated patients. Foley's operation, ensuring urinary flow from renal pelvis, produces good immediate and late results, provided a correct selection of patients is made. The treatment is particularly effective in initial stages of hydronephrosis.

(S)

VOSKRESENSKIY, M.P.

Method of palpating the kidneys. Sov. med. 21 no.7:119-120 J. '57.
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1. Iz urologicheskogo otdeleniya (zav. - zasluzhennyj vrach RSFSR
M.P. Voskresenskiy) 1-y oblastnoy bol'nitsy g. Kalinina (glavnnyj
vrach - zasluzhennyj vrach RSFSR A.A. Sokolov).

(KIDNEYS

palpation in phys. exam, method (Rus))

(PALPATION,

of kidneys, technic (Rus))

VOSKRESENSKIY, M.P., zasluzhennyj vrach RSFSR

Urachus diseases in adults. Urologija no.4:11-17 '61.

(MIRA 14:11)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. A.G. Karavanov) i urologicheskogo otdeleniya (zav. - zasluzhennyj vrach RSFSR M.P. Voskresenskiy) Kalininskoy oblastnoy klinicheskoy bol'nitsy.

(BLADDER--ABNORMITIES AND DEFORMITIES)

VOSKRESENSKIY, M. P.

VOSKRESENSKIY, M.P.

Surgical treatment of hydronephrosis. Urologia 22 no.3:9-17
My-Je '57. (MIRA 10:8)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. A.G.Karavanov)
Kalininskogo meditsinskogo instituta (dir. - prof. R.I.Gavrilov)
i urologicheskogo otdeleniya (zav. - zasluzhennyj vrach RSFER M.P.
Voskresenskiy) Oblastnoj bol'nitsy (glavnij vrach - zasluzhennyj
vrach RSFSR A.A.Sokolov)
(HYDRONEPHROSIS, surg.)

VOSKRESENSKIY, M.N., kand.med.nauk; ZAGCRODNYAYA, V.G., vrach-rentgenolog;
MALUNEYEVA, Z.A., vrach-rentgenolog; ABAKUMOV, A.I., zasluzhenny
vrach RSFSR.

Diagnosis and treatment of primary osteosarcoma. Trudy KGMI
no.10:397-400 '63. (MIRA 18:1)

1. Iz kafedry rentgenologii i meditsinskoy radiologii (:spolnyayushchiy ob'yazannosti zav. kafedroy M.N.Voskresenskiy) Kalininskogo
oblastnogo onkologicheskog. dispansera (glavnny vrach zasluzhenny
vrach RSFSR T.N.Mikhireva) i Kalininskoy oblastnoy bol'nitsy No.1
(glavnny vrach zasluzhenny vrach RSFSR A.A.Sokolov).

KITAYNIK, A.U.; LARIONOV, N.N., zhurnalist; BRATCHIKOV, B., zhurnalist;
LYKOV, V., zhurnalist; VOLKOV, Ye., zhurnalist; VOSKRESENSKIY, N.,
zhurnalist; GERVASH, A., zhurnalist; GORDIN, A., zhurnalist;
GILENKO, A., zhurnalist; DASHKOV, S., zhurnalist; DROBOTUSHENKO, A.,
zhurnalist; YERSHOV, N., zhurnalist; ZHULYABIN, A., zhurnalist;
KRASNOV, I., zhurnalist; LUCHINETSKIY, Ye., zhurnalist; LYKOV, M.,
zhurnalist; MEYSAK, N., zhurnalist; PADERIN, G., zhurnalist; PAL'M, A.,
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VOSKRESENSKIY, N. A.

USSR/Chemical Technology - Chemical Products and Their Application. Food Industry,
I-28

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63713

Author: Voskresenskiy, N. A.

Institution: None

Title: On Some Specific Features of the Process of Freezing Fish

Original

Periodical: Ryb. kh-vo, 1956, No 3, 76-83

Abstract: For a scientific substantiation of the conditions of drying of fish by the method of sublimation under high vacuum investigated were the amounts of water being frozen, colloido-chemical changes in muscle tissues of fish during freezing and Planck's scheme relating to phases of freezing. According to Geiss' data a curve has been plotted of the freezing of water in muscle tissues of fish, which can be divided in 3 regions: (1) freezing of free water (from -1° to -2°), (2) freezing of immobilized water (from -2° to -20°), (3) freezing of combined water (from -20° to -65°). On the basis of Geiss' curve and the author's

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USSR/Chemical Technology - Chemical Products and Their Application. Food Industry,
I-28

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63713

Abstract: data it has been ascertained that the cryohydrate point of muscle tissues of fish is at the boundary between second and third regions of the freezing of water. It was also determined that as the temperature drops, a continuous and considerable increase takes place in the water-soluble fraction of nitrogen-containing substances of the fish, their salt-soluble fraction decreases, especially on freezing of the fish at -5° , while free water content increases considerably on freezing at -10° , which is an indirect proof of disruption of tissue structures and changes in hydrophilic properties of proteins. Analysis of the process of water freezing at a protein particle of muscle tissue of fish reveals the necessity of a modification of Planck's scheme of freezing phases in the following manner. The process of freezing of fish muscle tissues is divided in 5 zones: in the first zone occurs cooling of muscle tissue without alteration of the commercial properties of the fish; in the second (from -1° to -2°) freezing of free water in the sarcoplasm and intercellular interstices; in the third (from -2° to -20°) all the immobilized water becomes frozen; in the fourth (from -20° to -65°) all the combined water and in the fifth

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USSR/Chemical Technology - Chemical Products and Their Application. Food Industry,
I-28

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63713

Abstract: further cooling occurs of muscle tissues wherein all of the water is frozen. Greatest colloido-chemical changes in muscle tissues of fish are observed during freezing from -3° to -10° . Since the eutectic point of the solution of salts in muscle tissues of fish is at -20° , in the planning of vacuum-sublimation units one should not lower the temperature of sublimation during drying of fish $<-20^{\circ}$.

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104-4-15/40

AUTHOR: Voskresenskiy, N.A., Egorova, L.V. and Filippov, A.A.,
Engineers.

TITLE: Corona losses on 400 kV transmission lines. (Poteri na
koronu na liniyah elektroperedachi 400 kV)

PERIODICAL: "Elektricheskie Stantsii" (Power Stations), 1957,
Vol. 28, No.4, pp. 54 - 57 (U.S.S.R.)

ABSTRACT: In the present state of the theory of a.c. corona,
because of the complexity of the effect and its dependence on
numerous external factors, it is not possible to calculate
corona losses on transmission line conductors. Experimental
lines for the study of this effect have, therefore, been con-
structed in the USSR and abroad. This article describes an
experimental installation consisting of a section of line
(analogous with the 400 kV Kuybishev-Moscow line) high voltage
transformers and supply equipment. Voltage is supplied by
three transformers each with a rated voltage of 750 kV and an
output of 750 kVA installed out-of-doors. The transformers
may be connected in series to produce a voltage of about
2 000 kV to earth and three-phase connection can be arranged
with line voltages of the order of 1 100 kV. The transformers
are supplied from a 3 MVA alternator driven by a synchronous
motor. The experimental section of three phase lines consists
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Corona losses on 400 kV transmission lines. (Cont.)
104-4-15/40
of three spans each of 300 m. The minimum clearance to earth at mid span is 10 m, two earth wires are used. Equipment has been provided for heating the wires in order to measure corona losses in conditions of fog and ice formation. A meteorological station has been provided to record atmospheric pressure, temperature and humidity, rainfall intensity and wind strength.

The procedure for measuring corona loss is described. In view of the need for high sensitivity a bridge circuit was chosen using sensitive electro-static watt meters. Special measuring cabins are installed on insulated supports with an insulation level to earth of 750-800 kV. Test results are given for corona losses using different wires under different meteorological conditions. Measured and calculated values of capacitance and maximum potential gradients in the three phase condition are tabulated for all the cases of measurement, and average values of corona loss are given as functions of voltage for various meteorological conditions in the form of graphs and a table. It is considered that the classification of weather conditions requires further attention. The period of the tests has extended over two years with one kind of conductor and 9 months with another. There is considerable dispersion of experimental results in good weather, both because

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Corona losses on 400 kV transmission lines. (Cont.)
of changes in the surface of the conductors and of changes in
the meteorological conditions from one test to another. The
scatter of experimental points in bad weather results from
variations in actual weather conditions. With both kinds of
3/3 conductor for a 400 kV line losses at rated voltage in good
weather do not exceed 1 kW/km.

There are 3 figures and two tables.

AVAILABLE: